Indesit Company

SERVICE MANUAL

MBZE45 FLAGSHIP / EVER FRESH FULL NO FROST FRIDGE-FREEZER 2005

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Service Manual	Edition	Language
MBZE 45 - 2005	18.06.2005	English

CONTENTS OF THE MANUAL: NOTE FOR THE ENGINEER

This manual is a supporting document for technical personnel. It contains a description of the various product types, the general operating principle, and indications concerning assistance.

Technical personnel should anyway consult the specific model on servicenet (servicenet.indesitcompany.com) to access data and updates of electrical diagrams, technical bulletins, and spare parts.

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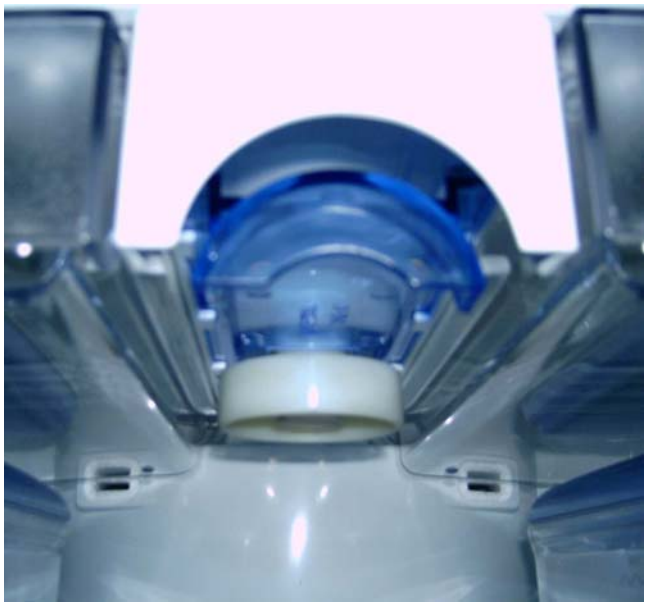
1. OPERATING LOGIC:

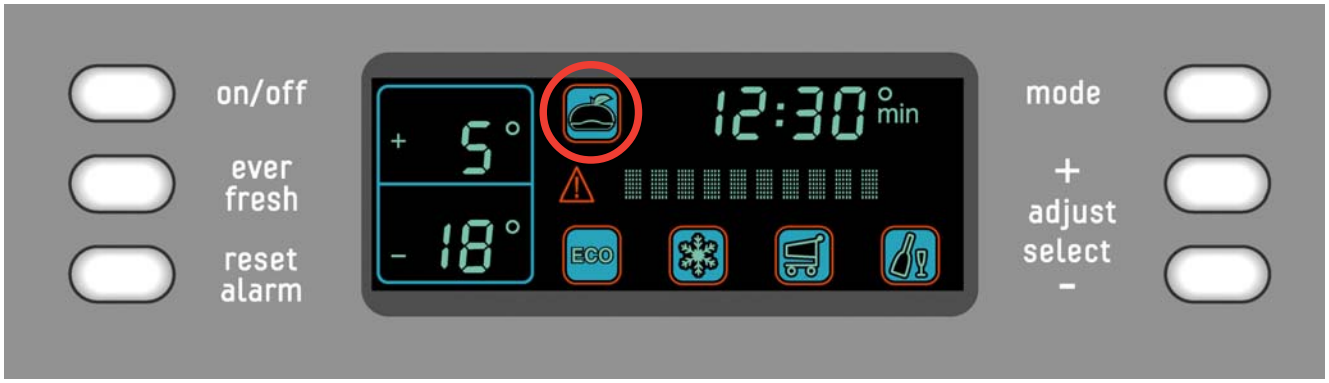
1.1. PRODUCT SPECIFICATIONS:

NF EVER FRESH VFD	
User Interface Input-Output	 On FR door: **6 Buttons:** (1) ON/OFF for switching appliance on and off; (2) EVER FRESH for activation and deactivation of EVER FRESH function; (3) ALARM RESET to reset alarms; (4) MODE, (5) ADJUST SELECT + and (6) ADJUST SELECT - to select the required option on the display **1 VFD Display**: for adjusting the freezer (FZ) and fridge (FR), setting the various functions and user indications **1 Buzzer**: on the electronic circuit board housed in the Loads control panel
Loads	1 COMPRESSOR 2 FR LAMPS (in Multiflow shell) 4 DEFROST HEATING ELEMENTS in parallel (evaporator, drip tray, compartments partition, elbow bend) 1 FZ FAN (in FZ compartment) 1 FR FAN (in FR compartment) 1 VACUUM PUMP 2 FUSES
Sensors	1 FZ SOLENOID VALVE SENSOR (in contact with the FZ evaporator) 1 FZ AIR SENSOR (inside the FZ compartment) 1 FR AIR SENSOR (inside the FR compartment) 1 PCB SENSOR (on the electronic circuit board) 1 FR DOOR SWITCH (magnetic reed switch on circuit board behind control panel) 1 VACUUM SWITCH
Internal serial line	Between the two boards; passage on FR door hinge
External serial line	Outlet in the compressor compartment
EEPROM memory	On the electronic circuit board

1.2 EVER FRESH FUNCTION / DISPLAY / ALARMS:

Select the vacuum position on the container cover and position the container in the central part of the shelf inside the fridge compartment (vacuum station) in correspondence with the mobile container-vacuum pump connection; pull the lever under the shelf to its forward position

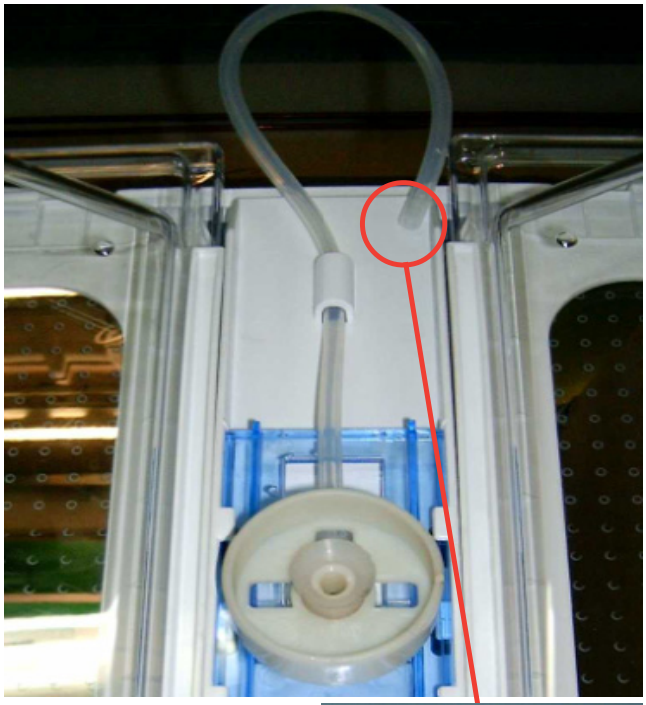


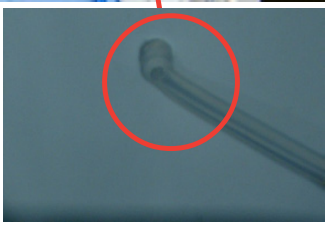


To activate the Ever Fresh function press the relevant button once, this will cause the icon to illuminate in blue and the message EVER FRESH ON will scroll across the display; at this point the vacuum will be applied automatically thanks to the intervention of a vacuum switch that detects vacuum conditions in the container. To deactivate the vacuum function manually, press the button once (the blue icon will extinguish and the display will scroll the message EVER FRESH OFF).

After approximately 80 seconds if vacuum conditions are not detected in the containers, the appliance will emit two initial beeps, the alarm icon ⚠ will illuminate steadily, and the message “VACUUM NOT POSSIBLE, CHECK CONTAINER” will scroll across the display. To reset this alarm and restore normal operation, press the ALARM RESET button twice

1.3 DESCRIPTION OF THE PNEUMATIC CIRCUIT:

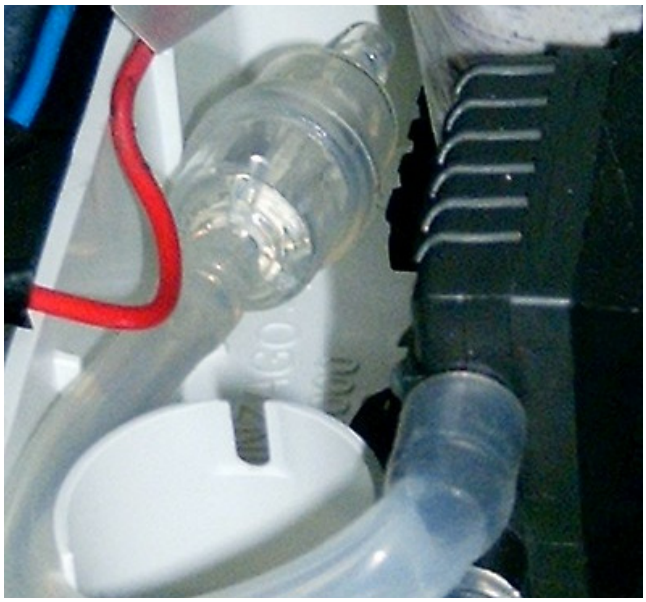




The pump is connected to the vacuum station (under the glass shelf) by a 7 mm diameter silicone rubber hose lodged in the cabinet by embedding in foam and coupled to the shelf at the rear of the fridge wall

The vacuum pump compartment also contains:

1 The vacuum switch responsible for detecting vacuum conditions inside the container and consequently disconnecting the vacuum pump.



2 A filter coupled to the aspirated air extraction hose.

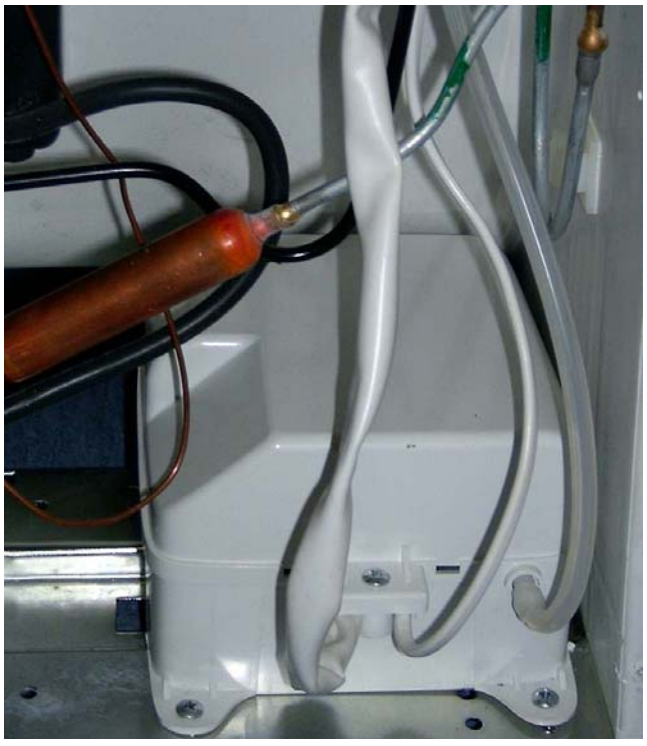
2. COMPONENTS:

EVER FRESH device.

IThe EVER FRESH device fitted to Full No Frost fridge-freezer allows the user to store food for longer periods by pressing the relevant button on the display and positioning the vacuum container in the specific area of the fridge compartment.

EVER FRESH pump.

A vacuum is created inside the containers by means of a vacuum pump located in the area of the compressor compartment.



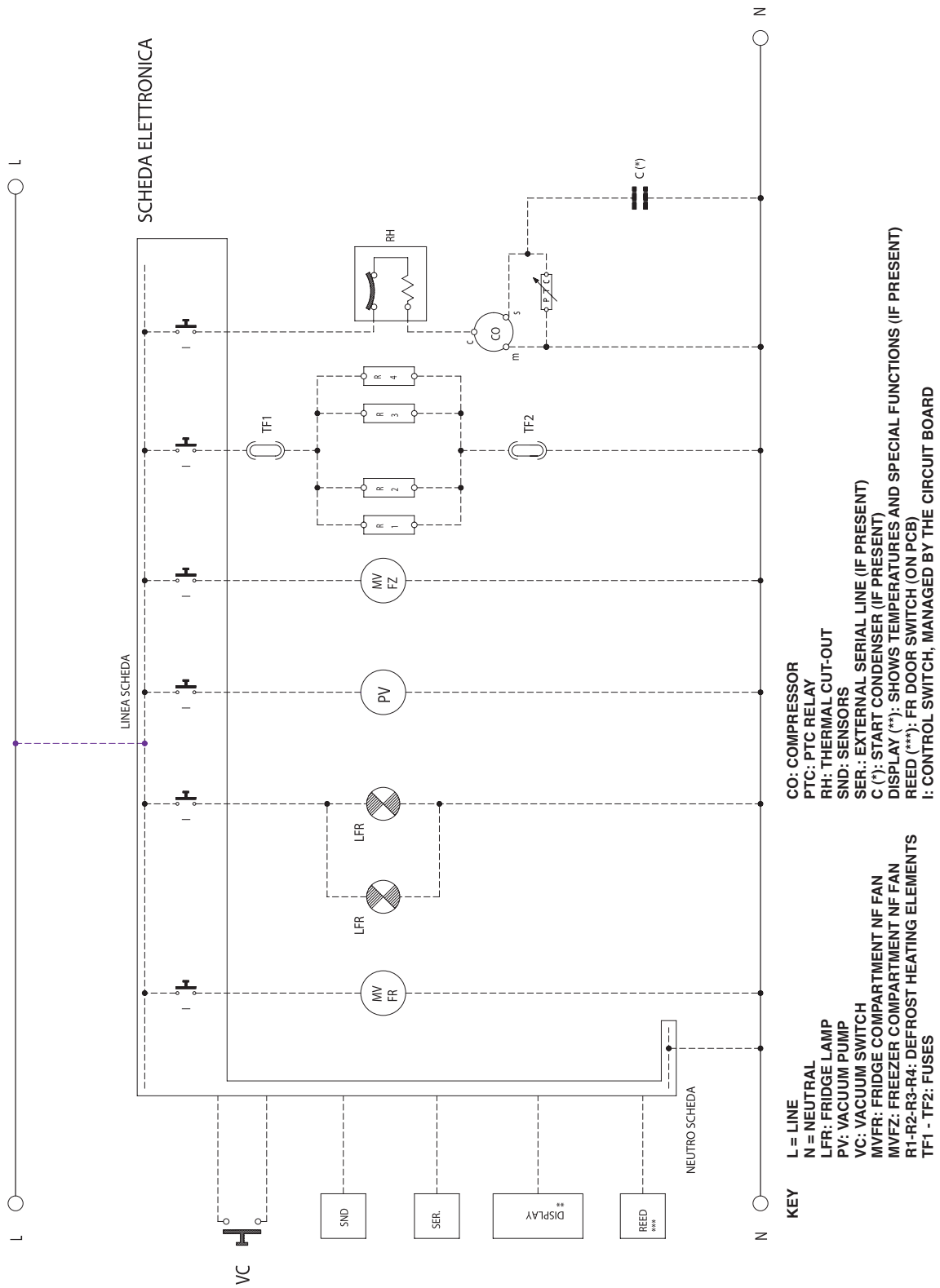
HOME BAR device.

There is a flap on the fridge door allowing the user to extract bottles from the door shelf inside the compartment without opening the fridge door.

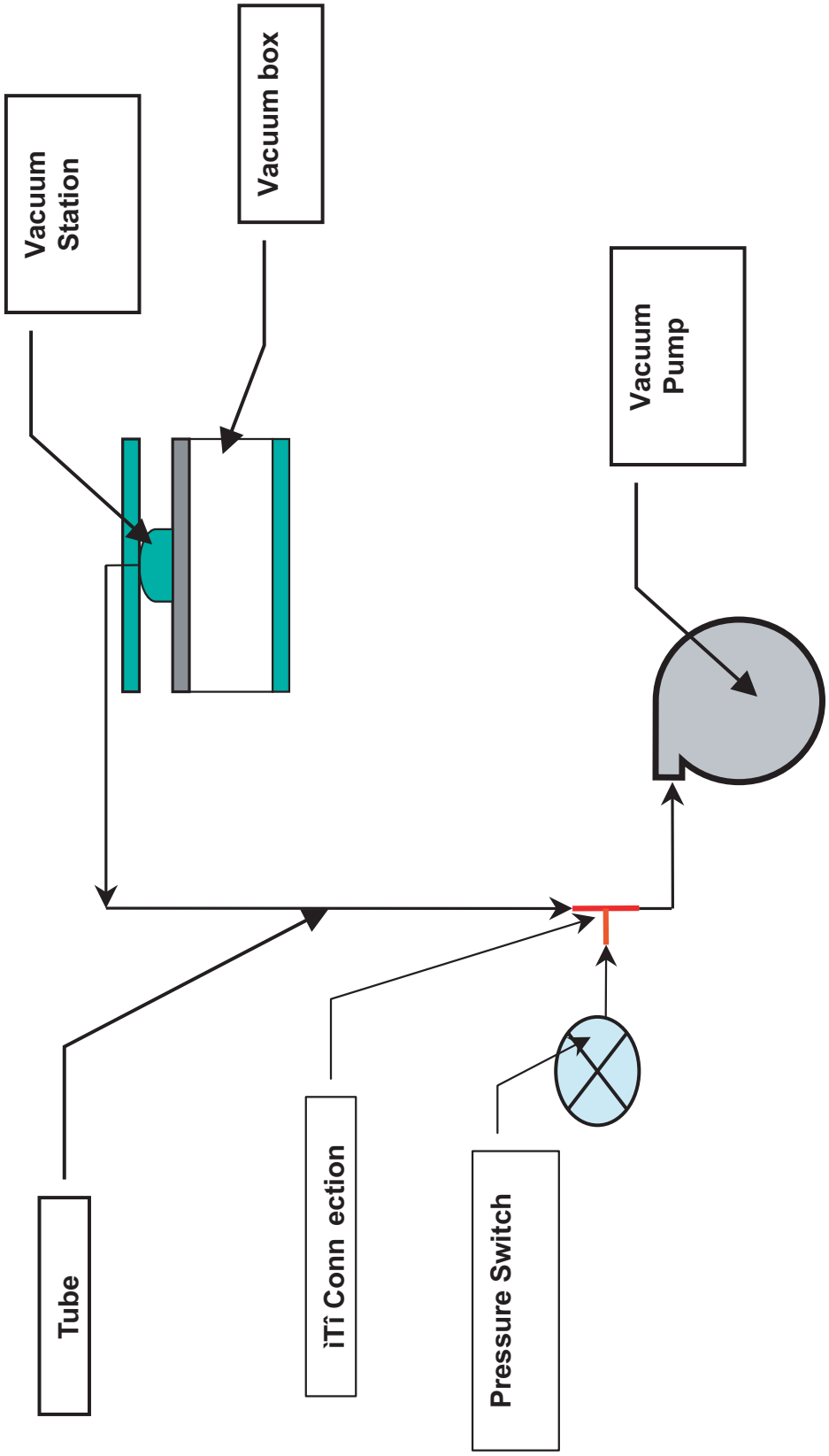
The electrical wiring of the Home Bar door perimeter heating element transits behind the control panel and inside the fridge door.

3. WIRING DIAGRAMS:

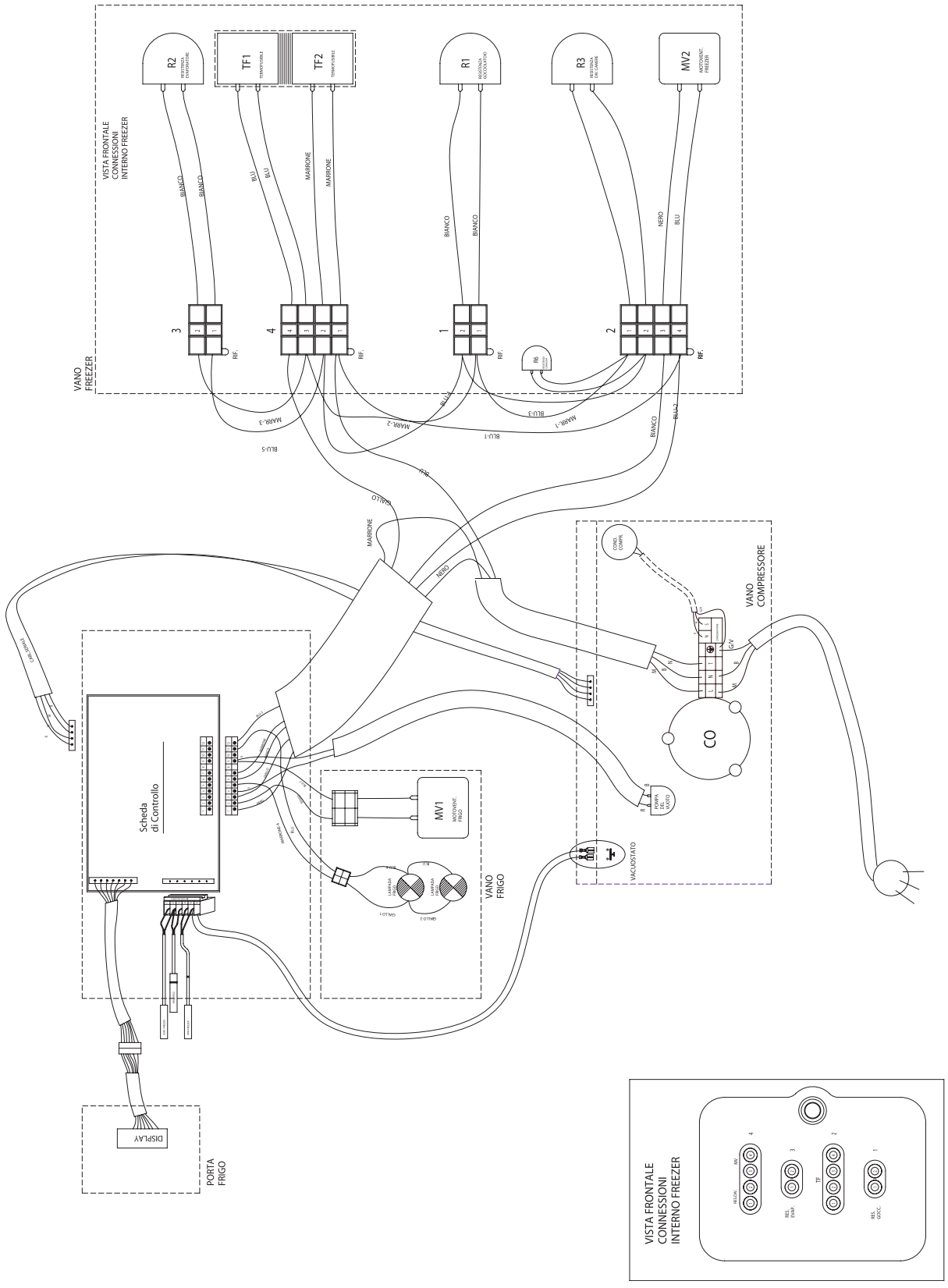
3.1 MAIN WIRING DIAGRAM:



3.2 PNEUMATIC CIRCUIT:



3.3 CONNECTION DIAGRAM:

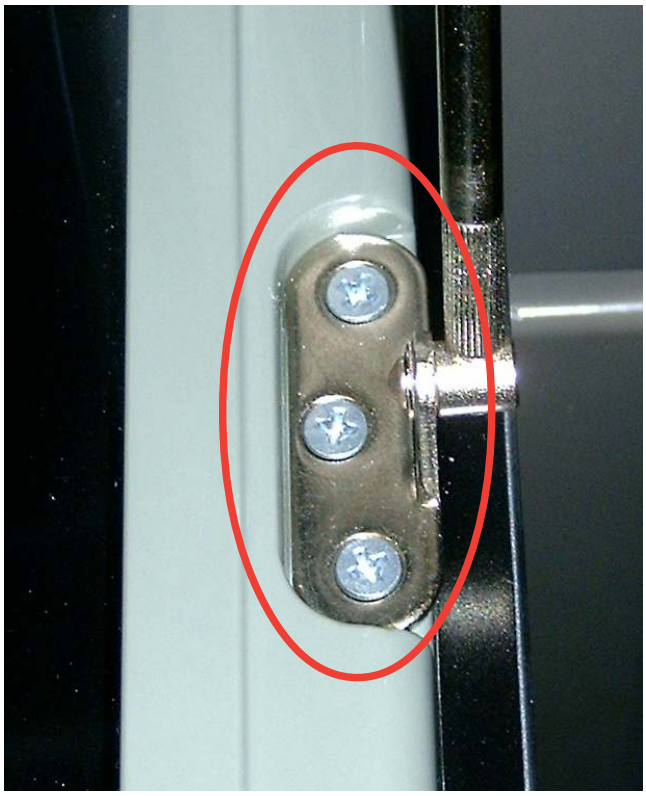


4. ASSISTANCE:

4.1. DISASSEMBLY:

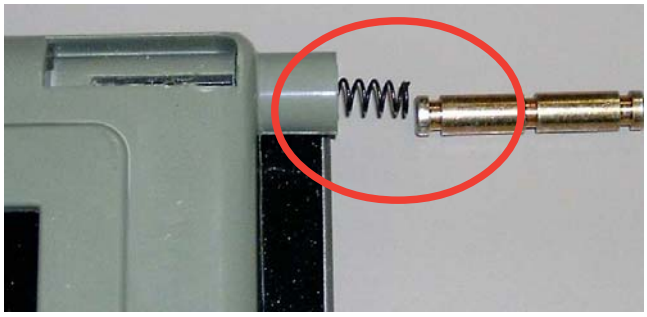
Removing the Home Bar Door:

To remove the Home Bar door:



1. Remove the 6 screws securing the 2 arms

2. Insert a screwdriver into the channel in the fixing pins and force them inwards.



N.B. When removing the door use caution because the spring could cause the pin to be ejected from its seat

Adjusting the Home Bar Door:

To adjust the opening force of the home bar door, rotate the arms:

1 rotate clockwise to increase opening force.

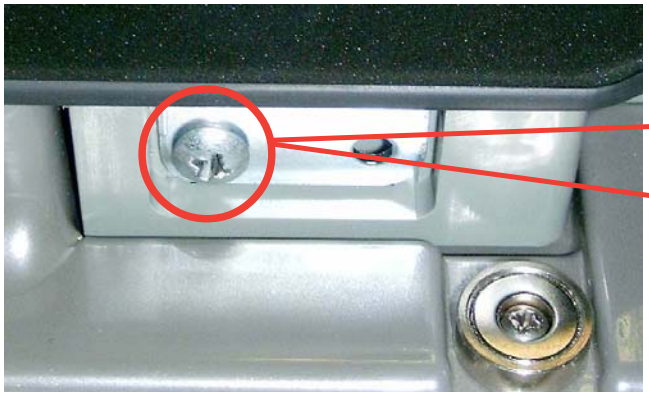
2 rotate counter-clockwise to decrease opening force.

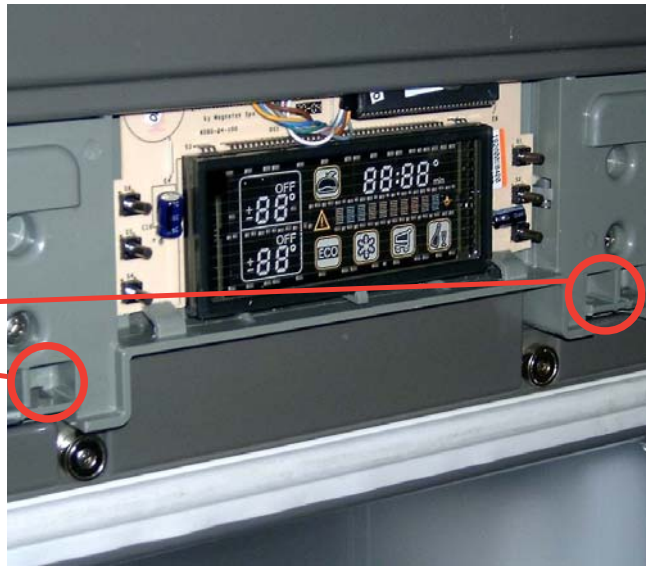
Removing the Home Bar Seal:

The seal is glued to the door; if it needs replacing use single-component neutral cure silicone adhesive/sealant (e.g.: Dow Corning 7091)

Removing the Display PCB:

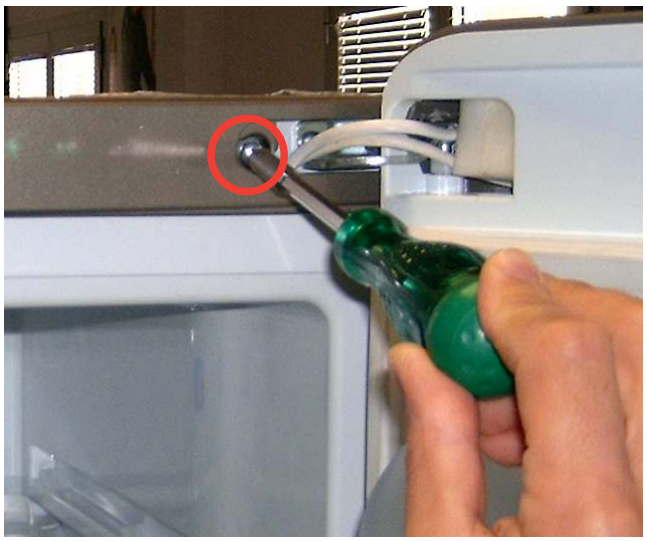
To gain access to the display PCB under the control panel window open the home bar door and undo the 2 screws at the bottom of the control panel window.

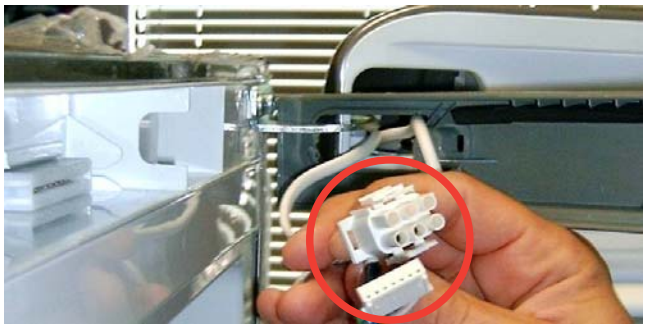




Removing the Fridge Door:

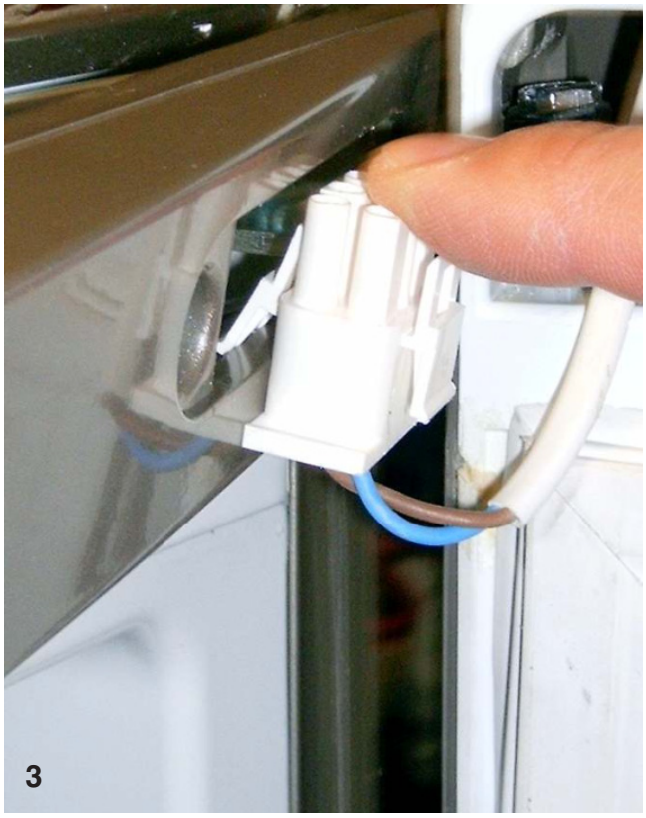
1. Remove the control panel covers and undo the 2 screws

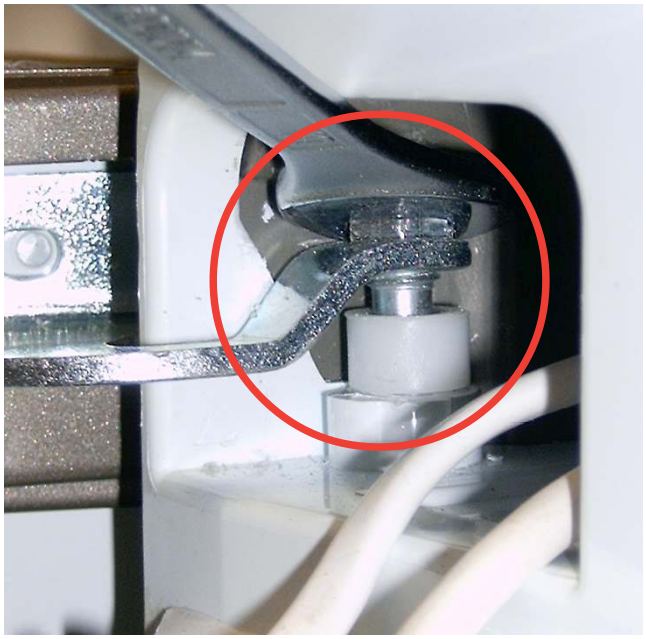




2. Disconnect the wiring from the PCB and control panel connector.

N.B.: When routing the connector through the hole in the instrument panel cover (and when re-inserting it) perform the operation as shown in the photos (1- 2-3)

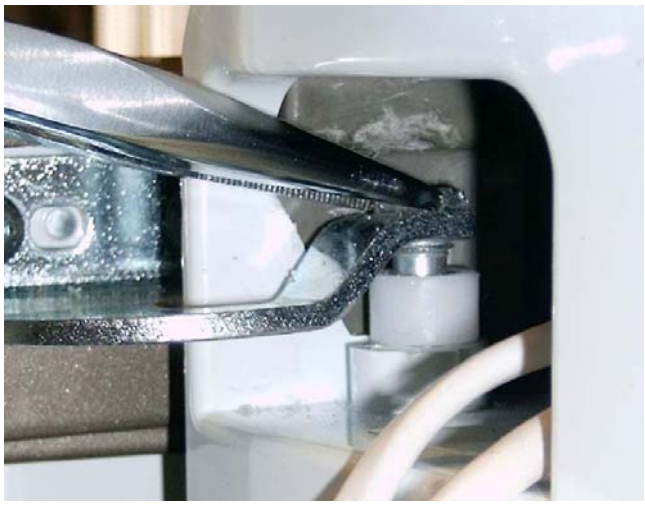




3. Unscrew the pin with a 10 mm wrench, keeping the door slightly raised to facilitate the operation (e.g. insert a rubber screwdriver handle in the area of the central hinge between the fridge and freezer doors)

4. Disengage the door from the hinge and lift

N.B. Important: when refitting the pin in its seat, keep the door slightly raised and use a pair of long-nosed pliers.



N.B. When refitting the wiring behind the control panel ensure the cables are fitted correctly into their original locations

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